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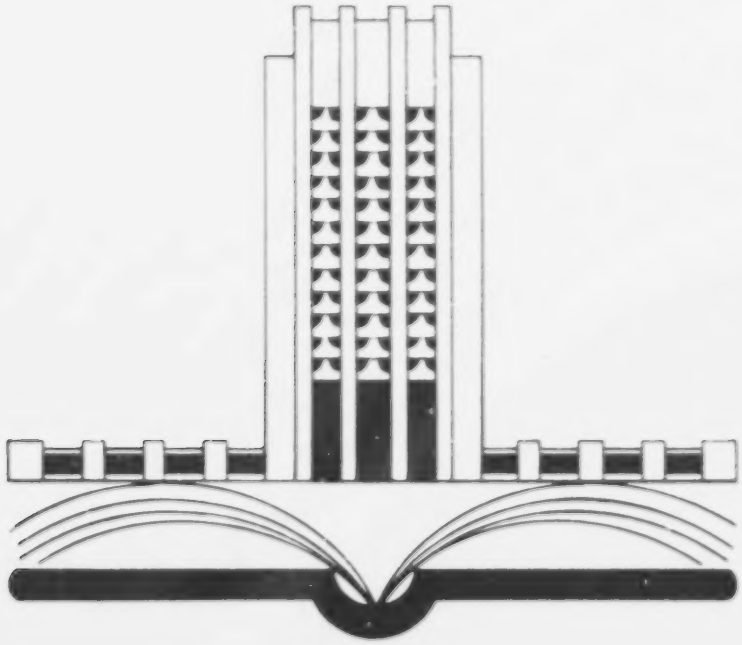

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BIOTECHNOLOGY: GENETIC LINKAGE STUDIES (GENE MAPPING)
IN PLANT SYSTEMS

SEARCH STRATEGY

Line	Command
1.	S (GENE OR GENETIC)()MAPPING
2.	S RFLP? OR RESTRICTION()FRAGMENT()LENGTH()POLYMORPHISM?
3.	S QTL? OR QUANTITATIVE()TRAIT()LOC?
4.	S GENETIC()LINKAGE?
5.	S S1 OR S2 OR S3 OR S4
6.	S S5 AND SH=F200

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Aberrant segregation of a variegated mutant in soybean.
Honeycutt, R.J. ; Hedges, B.R.~Palmer, R.G. Ames, Iowa : The Service. Soybean genetics newsletter - United States Department of Agriculture, Agricultural Research Service. Apr 1988. v. 15. p. 163-167. Includes references. (NAL Call No.: DNAL aSB205.S7S6).

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Addition of genes for dwarf seed (ds) and spindly branch (sb) to the linkage map of common bean.
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Advances in the genetics of free-living and symbiotic nitrogen fixing bacteria.
Puhler, A. ; Aguilar, M.D.~Hynes, M.~Muller, P.~Klipp, W.~Priefer, U.~Simon, R.~Weber, G. Dordrecht : Martinus Nijhoff Publishers. Advances in agricultural biotechnology. Literature review. 1984. v. 4. p. 609-619. ill. Includes references. (NAL Call No.: DNAL S494.5.B563A39).

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Analysis of genetic linkage in the cucumber.
JOHEA. Fanourakis, N.E. ; Simon, P.W. Washington, D.C. : American Genetic Association. The Journal of heredity. July/Aug 1987. v. 78 (4). p. 238-242. Includes references. (NAL Call No.: DNAL 442.8 AM3).

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Analysis of genetic linkage in the soybean (Glycine max).
Devine, T.E.JOHEA. ; Palmer, R.G.~Buzzel, R.I. Washington, D.C. : American Genetic Association. The Journal of heredity. Nov/Dec 1983. v. 74 (6). p. 457-460. Includes references. (NAL Call No.: 442.8 AM3).

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An analysis of physiological and molecular aspects of heat shock gene expression.
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Analysis of pss genes of Rhizobium leguminosarum required for exopolysaccharide synthesis and nodulation of peas: their primary structure and their interaction with psi and other nodulation genes.
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Analysis of the mitochondrial and nuclear genomes of two basidiomycetes, Coprinus cinereus and Coprinus stercorarius.
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Assessment of the degree of restriction fragment length polymorphism in Brassica.
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CUGEDS. Levi, A. ; Ridley, B.L.~Sink, K.C. Berlin, W. Ger. : Springer International. Current genetics. Aug 1988. v. 14 (2). p. 177-182. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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Biochemical loci of hexaploid wheat (Triticum aestivum, 2n.
Hart, G.E. Cold Spring Harbor, N.Y. : Cold Spring Harbor Laboratory. Genetic maps. 1984. v. 3. p. 484-490. Includes 45 references. (NAL Call No.: DNAL QH445.2.G4).

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Biochemical markers for barley chromosomes (Hordeum vulgare L.). Nachweis von biochemischen Markerfaktoren fur Chromosomen von Hordeum vulgare L. German.
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Hird, S.M. ; Barker, R.F.~Courtice, G.R.M.~Willey, D.L.~Dyer, T.A.~Gray, J.C. Dordrecht : M. Nijhoff Publishers, 1987. Progress in photosynthesis research : proceedings of the VIIth International Congress on Photosynthesis, Providence, Rhode Island, USA, August 10-15, 1986 / edited by J. Biggins. v. 4 p. 625-628. ill. Includes references. (NAL Call No.: DNAL QK882.I5 1986A).

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Characterization and genetical analysis of an Aspergillus nidulans strain that produces multinucleate conidia.
BMSTA. Pizzirani-Kleiner, A.A. ; Azevedo, J.L. Cambridge, Eng. : Cambridge University Press. Transactions of the British Mycological Society. Jan 1986. v. 86 (pt.1). p. 123-130. ill. Includes references. (NAL Call No.: DNAL 451 B76).

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Characterization of polypeptides corresponding to clones of maize zein mRNAS.
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CUGEDS. Jansen, R.K. ; Palmer, J.D. Berlin, W. Ger. : Springer International. Current genetics. 1987. v. 11 (6/7). p. 553-564. ill. Includes references. (NAL Call No.: DNAL QH426 C8).

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Chloroplast DNA variation in the sympatric zone of lodgepole pine (Pinus contorta Dougl.) and jack pine (P. banksiana Lamb.).
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Chloroplast genes for photosynthetic membrane components.
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The chloroplast genomes of conifers lack one of the rRNA-encoding inverted repeats.
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PNASA. Strauss, S.H. ; Palmer, J.D.~Howe, G.T.~Doerksen, A.H. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. June 1988. v. 85 (11). p. 3898-3902. Includes references. (NAL Call No.: DNAL 500 N21P).

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Chromosomal localisation of a recessive gene tp controlling the pleiotropic character topiary in Solanum.
THAGA. Wagenvoort, M. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1988. v. 75 (5). p. 712-716. ill. Includes references. (NAL Call No.: DNAL 442.8 Z8).

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Chromosomal location of genes conditioning low amylose content of endosperm starches in rice, Oryza sativa L.
THAGA. Yano, M. ; Okuno, K.~Satoh, H.~Omura, T. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1988. v. 76 (2). p. 183-189. Includes references. (NAL Call No.: DNAL 442.8 Z8).

0038
Chromosomal locations of genes for traits associated with lodging in winter wheat.
CRPSAY. Al-Qaudhy, W. ; Morris, R.~Mumm, R.F.~Hanna, M.A. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1988. v. 28 (4). p. 631-635. Includes references. (NAL Call No.: DNAL 64.8 C883).
Lodging in wheat (Triticum aestivum L.) is a complex character which is influenced by morphological traits as well as environmental conditions. Wheat breeding programs would benefit from

cytogenetic information on lodging and associated traits. Reciprocal substitutions between the hard red winter wheats, 'Wichita' and 'Cheyenne', for all chromosomes except Cheyenne 2B in Wichita were used to investigate additive and interactive effects of individual chromosomes on nine traits previously reported to be associated with lodging. Duplicate lines for each chromosome except Cheyenne 3B in Wichita were included to check background homogeneity. Straw strengths were measured by using an Instron universal testing machine (Instron Ltd., Canton, Ma) to break basal internodes of main tillers from plants grown in a field on a Sharpsburg silty-clay loam soil (fine, montmorillonitic, mesic Typic Argiudolls) at Lincoln, NE, with a randomized complete block design. Data on the other eight traits (height, length and diameter of basal internodes, number and width of inner vascular bundles, width of culm wall, diameter of culm cavity, and width of tissue from epidermis through sclerenchyma layer) were collected from main tillers of a greenhouse planting with an augmented randomized complete block design. Wichita and Cheyenne differed significantly only in plant height and basal-internode length among the nine traits. Substitutions of Cheyenne chromosomes into Wichita produced almost three times as many significant phenotypic changes as substitutions of Wichita chromosomes into Cheyenne. Reciprocal effects we obtained for chromosomes 3E (numbe of vascular bundles and culm-wall width) and 3D (basal-internode diameter). Each of the three Cheyenne nomoeologous Group 4 chromosome pairs increased the number of vascular bundles in Wichita. Cheyenne chromosomes 3E and 6A each produced favorable effects in Wichita on several traits related to lodging resistance. Other Cheyenne chromosomes w

0039
Chromosomal mapping of Hessian fly-resistance gene H13 in the D genome of wheat.
JOHEA. Gill, B.S. ; Hatchett, J.H.~Raupp, W.J. Washington, D.C. : American Genetic Association. The Journal of heredity. Mar/Apr 1987. v. 78 (2). p. 97-100. ill. Includes references. (NAL Call No.: DNAL 442.8 AM3).

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PLSCE4. Sugiura, M. ; Shinozaki, K.~Zaita, N.~Kusuda, M.~Kumano, M. Limerick, Ireland : Elsevier Scientific Publishers Ireland. Plant science. 1986. v. 44 (3). p. 211-216. Includes 21 references. (NAL Call No.: DNAL QK1.P5).

0042
Clones from two different genomic regions complement the cdc25 start mutation of Saccharomyces cerevisiae.
CUGEDS. Daniel, J. ; Simchen, G. Berlin, W. Ger. : Springer International. Current genetics. 1986. v. 10 (9). p. 643-646. Includes references. (NAL Call No.: DNAL QH426.C8).

0043
Cloning and characterization of a gene encoding an iron-regulated membrane protein in Anacystis nidulans R2.
Reddy, K.J. ; Vann, C.~Sherman, L. Dordrecht : M. Nijhoff Publishers, 1987. Progress in photosynthesis research : proceedings of the VIIth International Congress on Photosynthesis, Providence, Rhode Island, USA, August 10-15, 1986 / edited by J. Biggins. v. 4 p. 777-780. ill. Includes references. (NAL Call No.: DNAL QK882.I5 1986A).

0044
Cloning and expression of the beta-d-galactosidase gene from Streptococcus thermophilus in Escherichia coli.
APMBA. Herman, R.E. ; McKay, L.L. washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. July 1986. v. 52 (1). p. 45-50. Includes 34 references. (NAL Call No.: DNAL 448.3 AP5).

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Cloning and genetic mapping of SNF1, a gene required for expression of glucose-repressible genes in Saccharomyces.
Celenza, J.L.MCEBD4. : Carlson, M. Washington : American Society for Microbiology. Molecular and cellular biology. Jan 1984. v. 4 (1). p. 49-53. Includes references. (NAL Call No.: QH506.M664).

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The cloning and mapping of ADR6, a gene required for sporulation and for expression of the alcohol dehydrogenase II isozyme from Saccharomyces cerevisiae.
GENTA. Taguchi, A.K.W. ; Young, E.T. Baltimore, Md. : Genetics Society of America. Genetics. Aug 1987. v. 116 (4). p. 531-540. ill. Includes references. (NAL Call No.: DNAL 442.8 G28).

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Cloning and mapping of CDC40, a Saccharomyces cerevisiae gene with a role in DNA repair.
CUGEDS. Kassir, Y. ; Kupiec, M.~Shalom, A.~Simchen, G. Berlin, W. Ger. : Springer International. Current genetics. 1985. v. 9 (4). p. 253-257. Includes references. (NAL Call No.: DNAL QH426.C8).

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Cloning and mapping of the sporulation gene, spoT7, in Saccharomyces cerevisiae.
MGGEAE. Tanaka, H. ; Tsuboi, M. Berlin, W. Ger. : Springer International. M G G : Molecular and general genetics. 1985. v. 199 (1). p. 21-25. ill. Includes references. (NAL Call No.: DNAL 442.8 Z34).

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Cloning and physical mapping of the ADE1 gene of the yeast Saccharomyces cerevisiae.
SOGEBZ. Sasnauskas, K.V. ; Gedminene, G.K.~Markyavichyus, A.I.~Naktinis, V.I.~Yanulaitis, A.A. New York, N.Y. : Consultants Bureau. Soviet genetics. Translated from: Genetika, v. 22 (4), April 1986, p. 549-556. (QH431.A1G4). Apr 1986. v. 22 (4). p. 409-415. ill. Includes references. (NAL Call No.: DNAL QH431.A1G43).

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The cloning, genetic mapping, and expression of the constitutive sucrose synthase locus of maize.
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Cloning of the orotidine 5'-phosphate decarboxylase (ODC) gene of Schwanniomyces occidentalis by complementation of the ura3 mutation in S. cerevisiae.
CUGEDS. Klein, R.D. ; Roof, L.L. Berlin, W. Ger. : Springer International. Current genetics. 1988. v. 13 (1). p. 29-35. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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Cloning quantitative trait loci by insertional mutagenesis.
THAGA. Soller, M. ; Beckmann, J.S. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1987. v. 74 (3). p. 369-378. Includes references. (NAL Call No.: DNAL 442.8 Z8).

0053
Comparative studies on chloroplast transfer RNAs and tRNA gene organization in Vicia faba, Pisum sativum and Phaseolus vulgaris.
NASSD. Mubumbila, M. ; Stummann, B.M.~Bookjans, G.~Henningsen, K.W.~Weil, J.H.~Crouse, E.J. New York, N.Y. : Plenum Press. NATO advanced science institutes series : Series A : Life sciences. Paper presented at the congress on the "Molecular Form and Function of the Plant Genome," July 4-14, 1984, Renesse, Netherlands. 1985. v. 83. p. 301-312. Includes references. (NAL Call No.: DNAL QH301.N32).

0054
Comparative studies on the DNA of Pythium species and some possibly related taxa.
JGMIAN. Belkhiri, A. ; Dick, M.W. Reading : Society for General Microbiology. The Journal of general microbiology. Oct 1988. v. 134 (pt.10). p. 2673-2683. ill. Includes references. (NAL Call No.: DNAL 448.3 J823).

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Comparison of non-mutant and mutant waxy genes in rice and maize.
GENTA. Okagaki, R.J. ; Wessler, S.R. Baltimore, Md. : Genetics Society of America. Genetics. Dec 1988. v. 120 (4). p. 1137-1143. ill. Includes references. (NAL Call No.: DNAL 442.8 G28).

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Complex structure of the ribosomal DNA spacer of Cucumis sativus (cucumber).
MGGEAE. Ganal, M. ; Torres, R.~Hemleben, V. Berlin, W. Ger. : Springer International. M G G : Molecular and general genetics. June 1988. v. 212 (3). p. 548-554. ill. Includes references. (NAL Call No.: DNAL 442.8 Z34).

0057
Conjugational transfer of chromosomal markers in an Erwinia chrysanthemi bacterial system. III. Genetic mapping of Erwinia chrysanthemi ENA49 chromosomal segment (Phytopahtogenic bacteria).
Prokulevich, V.A. ; Belyasova, N.A.~Fomichev, Yu.K. New York, N.Y. Consultants Bureau. Soviet genetics. Oct 1983 (pub. 1984). Translated from: Genetika, p. 1624-1629. (QH431.A1G4). v. 19 (10). p. 1271-1276. Includes references. (NAL Call No.: QH431.A1G43).

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The consensus land plant chloroplast gene order is present, with two alterations, in the moss Physcomitrella patens.
MGGEAE. Calie, P.J. ; Hughes, K.W. Berlin, W. Ger. : Springer International. M G G : Molecular and general genetics. June 1987. v. 208 (1/2). p. 335-341. ill. Includes references. (NAL Call No.: DNAL 442.8 Z34).

0059
Conservation of chloroplast genome structure among vascular plants.
CUGEDS. Palmer, J.D. ; Stein, D.B. Berlin, W. Ger. : Springer International. Current genetics. 1986. v. 10 (11). p. 823-833. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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Conservation of gene repertoire but not gene order in pepper and tomato.
PNASA. Tanksley, S.D. ; Bernatzky, R.~Lapitan, N.L.~Prince, J.P. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. Sept 1988. v. 85 (17). p. 6419-6423. ill. Includes references. (NAL Call No.: DNAL 500 N21P).

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Keim, P. ; Shoemaker, R.C. Ames, Iowa : The Service. Soybean genetics newsletter - United States Department of Agriculture, Agricultural Research Service. Apr 1988. v. 15. p. 147-148. Includes references. (NAL Call No.: DNAL aSB205.S756).

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THAGA. Helentjaris, T. ; Slocum, M.~Wright, S.~Schaefer, A.~Nienhuis, J. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1986. v. 72 (6). p. 761-769. ill. Includes references. (NAL Call No.: DNAL 442.8 Z8).

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The copper, zinc-superoxide dismutase gene of Saccharomyces cerevisiae: cloning, sequencing, and biological activity.
PNASA. Bermingham-McDonogh, O. ; Gralla, E.B.~Valentine, J.S. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. July 1988. v. 85 (13). p. 4789-4793. ill. Includes references. (NAL Call No.: DNAL 500 N21P).

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The cross-pathway control gene of Neurospora crassa, cpc-1, encodes a protein similar to GCN4 of yeast and the DNA-binding domain of the oncogene v-jun-encoded protein.
PNASA. Paluh, J.L. ; Orbach, M.J.~Legerton, T.L.~Yanofsky, C. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. June 1988. v. 85 (11). p. 3728-3732. ill. Includes references. (NAL Call No.: DNAL 500 N21P).

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THAGA. Hosaka, K. ; De Zoeten, G.A.~Hanneman, R.E. Jr. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1988. v. 75 (5). p. 741-745. ill. Includes references. (NAL Call No.: DNAL 442.8 Z8).

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Bryant, D.A. ; De Lorimier, R.~Guglielmi, G.~Stirewalt, V.L.~Cantrell, A.~Stevens, S.E. Jr. Dordrecht : M. Nijhoff Publishers, 1987. Progress in photosynthesis research : proceedings of the VIIth International Congress on Photosynthesis, Providence, Rhode Island, USA, August 10-15, 1986 / edited by J. Biggins. v. 4 p. 749-755. ill. Includes references. (NAL Call No.: DNAL QK882.I5 1986A).

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PLPHA. Turano, F.J. ; DeBonte, L.R.~Wilson, K.G.~Matthews, B.F. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Aug 1987. v. 84 (4). p. 1074-1079. ill. Includes references. (NAL Call No.: DNAL 450 P692).

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Deletion mapping of the yeast Pol I promoter.
CUGEDS. Kempers-Veenstra, A.E. ; Musters, W.~Dekker, A.F.~Klootwijk, J.~Planta, R.J. Berlin, W. Ger. : Springer International. Current genetics. 1985. v. 10 (4). p. 253-260. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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PLSMD. Hildebrand, M. ; Jurgenson, J.E.~Ramage, R.T.~Bourque, D.P. Orlando, Fla. : Academic Press. Plasmid. July 1985. v. 14 (1). p. 64-79. ill. Includes references. (NAL Call No.: DNAL QH426.P56).

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THAGA. Snape, J.W. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1988. v. 76 (1). p. 125-128. Includes references. (NAL Call No.: DNAL 442.8 Z8).

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Detection of a single-copy gene on plant chromosomes by in situ hybridization.
MGGEAE. Huang, P.L. ; Hahlbrock, K.~Somssich, I.E. Berlin, W. Ger. : Springer International. M G G : Molecular and general genetics. Jan 1988. v. 211 (1). p. 143-147. ill. Includes references. (NAL Call No.: DNAL 442.8 Z34).

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Detection of legumin gene DNA sequences in pea by in situ hybridization.
CHROAU. Simpson, P.R. ; Newman, M.A.~Davies, D.R. Berlin, W. Ger. : Springer International. Chromosoma. 1988. v. 96 (6). p. 454-458. ill.

Includes references. (NAL Call No.: DNAL 442.8 C46).

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Detection of linkage between restriction fragment length polymorphism markers and quantitative traits.
THAGA. Asins, M.J. ; Carbonell, E.A. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1988. v. 76 (4). p. 623-626. Includes references. (NAL Call No.: DNAL 442.8 Z8).

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Development of genetic maps of non-conventional yeasts.
Ogrydziak, D.M. Berlin, E. Ger. : Akademie-Verlag. Journal of basic microbiology. 1988. v. 28 (3). p. 185-196. Includes references. (NAL Call No.: DNAL QR1.Z4).

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Difference between two major size classes of carrot rDNA repeating units is due to reiteration of sequences of about 460 bp in the large spacer.
MGGEAE. Taira, T. ; Kato, A.-Tanifuji, S. Berlin, W. Ger. : Springer International. M G G : Molecular and general genetics. July 1988. v. 213 (1). p. 170-174. ill. Includes references. (NAL Call No.: DNAL 442.8 Z34).

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The discoidin I gene family of Dictyostelium discoideum is linked to genes regulating its expression.
GENTA. Welker, D.L. Baltimore, Md. : Genetics Society of America. Genetics. July 1988. v. 119(3). p. 571-578. ill. Includes references. (NAL Call No.: DNAL 442.8 G28).
Abstract: The discoidin I protein has been studied extensively as a marker of early development in the cellular slime mold Dictyostelium discoideum. However, like most other other developmentally regulated proteins in this system, no reliable information was available on the linkage of the discoidin genes to other known genes. Analysis of the linkage of the discoidin I genes by use of restriction fragment length polymorphisms revealed that all three discoidin I genes as well as a pseudogene are located on linkage group II. This evidence is consistent with the discoidin I genes forming a gene cluster that may be under the control of a single regulatory element. The discoidin I genes are linked to three genetic loci (disA, motA, daxA) that affect the expression of the discoidin I protein. Linkage of the gene family members to regulatory loci may be important in the coordinate maintenance of the gene family and regulatory loci. A duplication affecting the entire discoidin gene family is also linked to group II; this appears to be a small tandem duplication. This duplication was mapped using a DNA polymorphism generated by insertion of the Tdd-3 mobile genetic element into a Tdd-2 element flanking the gamma gene. A probe for Tdd-2 identified a restriction fragment length polymorphism in strain AX3K that was consistent with generation by a previously proposed Tdd-3 insertion event. A putative duplication or rearrangement of a second Tdd-2 element on linkage group IV of strain AX3K was also identified. This is the first linkage information available for mobile genetic elements in D. discoideum.

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Distribution of the genes causing F2 chlorosis in rice cultivars of the Indica and Japonica types.
THAGA. Sato, Y.I. ; Morishima, H. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1988. v. 75 (5). p. 723-727. maps. Includes references. (NAL Call No.: DNAL 442.8 Z8).

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DNA methylation in Neurospora: chromatographic and isoschizomer evidence for changes during development.
Russel, P.J. ; Rodland, K.D.-Cutler, J.E.-Rachlin, E.M.-McCloskey, J.A. New York : Alan R. Liss. UCLA symposia on molecular and cellular biology. Paper presented at the "Symposium on Molecular Genetics of Filamentous Fungi", April 13-19, 1985, Keystone, Colorado. 1985. v. 34. p. 321-332. ill. Includes references. (NAL Call No.: DNAL QH506.U34).

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DNA polymerase I gene of Saccharomyces cerevisiae: nucleotide sequence, mapping of a temperature-sensitive mutation, and protein homology with other DNA polymerases.
PNASA. Pizzagalli, A. ; Valsasnini, P.-Plevani, P.-Lucchini, G. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. June 1988. v. 85 (11). p. 3772-3776. ill. Includes references. (NAL Call No.: DNAL 500 N21P).

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SSTCB. Bunce, N.A.C. ; Forde, B.G.-Kreis, M.-Shewry, P.R. Zurich : International Seed Testing Association. Seed science and technology. 1986. v. 14 (2). p. 419-429. ill. Includes references. (NAL Call No.: DNAL SB117.S455).

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DNA sequence and transcript mapping of a soybean gene encoding a small heat shock protein.
PNASA. Czarnecka, E. ; Gurley, W.B.-Nagao, R.T.-Mosquera, L.A.-Key, J.L. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. June 1985. v. 82 (11). p. 3726-3730. ill. Includes 38 references. (NAL Call No.: DNAL 500 N21P).

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DNase I hypersensitive sites in the 5'-region of the maize Shrunken gene in nuclei from different organs.
MGGEAE. Frommer, W.B. ; Starlinger, P. Berlin, W. Ger. : Springer International. M G G : Molecular and general genetics. May 1988. v. 212 (2). p. 351-359. ill. Includes references. (NAL Call No.: DNAL 442.8 Z34).

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Double-stranded RNA replication in Saccharomyces cerevisiae: genetic control and in vitro replication.
Fujmura, T. ; Esteban, R.-Wickner, R.B. New York, N.Y. : Marcel Dekker. Mycology series. 1988. v. 7. p. 91-115. ill. Includes references. (NAL Call No.: DNAL QK600.S4).

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Electrophoretic analysis of genetic linkage in Scots pine (Pinus sylvestris L.).
BIGEBA. Niebling, C.R. ; Johnson, K.-Gerhold, H.D. New York, N.Y. : Plenum Press. Biochemical genetics. Dec 1987. v. 25 (11/12). p. 803-814. Includes references. (NAL Call No.: DNAL QR73.B5).

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Estimation of recombination frequency in genetic linkage studies (Pitch pine, Pinus rigida).
Nordheim, E.V. ; O'Malley, D.M.-Guries, R.P. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. Sept 1983. v. 66 (3/4). p. 313-321. Includes references. (NAL Call No.: 442.8 Z8).

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Evolutionary divergence in the nifH.D.K. gene region among nine symbiotic Anabaena azollae and between Anabaena azollae and some free-living heterocystous cyanobacteria.
Franche, C. ; Cohen-Bazire, G. Philadelphia : Balaban Publishers. Symbiosis. Summer 1987. v. 3 (2). p. 159-178. ill. Includes references. (NAL Call No.: DNAL QH548.S9).

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Evolutionary significance of inversions in legume chloroplast DNAs.
CUGEDS. Palmer, J.D. ; Osorio, B.-Thompson, W.F. Berlin, W. Ger. : Springer International. Current genetics. July 1988. v. 14 (1). p. 65-74. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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Expression of pea legumin sequences in pea, nicotiana, and yeast.
BPPFA. Croy, R.R.D. ; Evans, I.M.-Yarwood, J.N.-Harris, N.-Gatehouse, J.A.-Shirsat, A.H.-Kang, A.-Ellis, J.R.-Thompson, A.-Boulter, D. Jena, E. Ger. : Gustav Fischer. Biochemie und Physiologie der Pflanzen : BPP. Paper presented at the "Fourth Symposium on Seed Proteins", July 19-23, 1987, Gatersleben, German Democratic Republic. 1988. v. 183 (2/3). p. 183-197. ill. Includes references. (NAL Call No.: DNAL QK710.F5).

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Expression of the oxi1 and maturase-related RF1 genes in yeast mitochondria.
CUGEDS. Bordonne, R. ; Dirheimer, G.-Martin, R.P. Berlin, W. Ger. : Springer International. Current genetics. Mar 1988. v. 13 (3). p. 227-233. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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Extensive restriction fragment length polymorphisms in a new isolate of Chlamydomonas reinhardtii.
CUGEDS. Gross, C.H. ; Ranum, L.P.W.-Lefebvre, P.A. Berlin, W. Ger. : Springer International. Current genetics. June 1988. v. 13 (6). p. 503-508. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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Extrachromosomal genetics of Claviceps purpurea. II. Plasmids in various wild strains and integrated plasmid sequences in mitochondrial genomic DNA.
CUGEDS. Tudzynski, P. ; Esser, K. Berlin, W. Ger. : Springer International. Current genetics. 1986. v. 10 (6). p. 463-467. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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Eyespot resistance gene Pch-1 from Aegilops ventricosa is associated with a different chromosome in wheat line H-93-70 than the resistance factor in "Roazon" wheat.
THAGA. Delibes, A. ; Doussinault, G.-Mena, M.-Lopez-Brana, I.-Garcia-Olmedo, F. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1988. v. 76 (4). p. 573-576. ill. Includes references. (NAL Call No.: DNAL 442.8 Z8).

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Fingerprinting of DNA in the identification of yeast (Brewer's yeast, genetic mapping, hybridization, method of identification of yeast, radioactive labelling).
Pedersen, M.B. London : IRL Press Limited. Proceedings of the congress - European Brewery Convention. 1983. v. 19. p. 457-463. ill. Includes references. (NAL Call No.: 390.9 EU7).

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Further characterization of picloram (herbicide)-tolerant mutants of Nicotiana tabacum (Tobacco, genetic linkage analyses).
Chaleff, R.S. Berlin, Springer. Theoretical and applied genetics. 1980. v. 58 (2). p. 91-95. 5 ref. (NAL Call No.: 442.8 Z8).

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Gametophytic self-incompatibility is controlled by a single major locus on chromosome 1 in Lycopersicon peruvianum.
PNASA. Tanksley, S.D. ; Loaiza-Figueroa, F. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. Aug 1985. v. 82 (15). p. 5093-5096. ill. Includes 10 references. (NAL Call No.: DNAL 500 N21P).

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Gene analysis and linkage map.
Kinoshita, T. Amsterdam : Elsevier Scientific Pub. Co. Developments in crop science. Literature review. 1984. v. 7. p. 187-273. ill. Includes references. (NAL Call No.: DNAL SB299.P3D4).

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Gene location and gene mapping in hexaploid wheat.
AGRYA. McIntosh, R.A. Madison, Wis. : American Society of Agronomy. Agronomy. 1987. (13). p. 269-287. (NAL Call No.: DNAL 4 AM392).

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Bingham, S.E. ; Hallick, R.B. Amsterdam : Elsevier Biomedical Press. 1982. Methods in chloroplast molecular biology / M. Edelman, R.B. Hallick, and N.H. Chua, editors. p. 437-444. ill. Includes references. (NAL Call No.: QK725.M39).

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Gene mapping (Enzymes, plant species).
Tanksley, S.D. Amsterdam : Elsevier. Developments in plant genetics and breeding. 1983. Literature review. v. 1 (pt.A). p. 109-138. ill. Includes references. (NAL Call No.: SB123.D41).

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Gene mapping on maize pachytene chromosomes by in situ hybridization.
CHROAU. Shen, D.L. ; Wang, Z.F.-Wu, M. Berlin, W. Ger. : Springer International. Chromosoma. 1987. v. 95 (5). p. 311-314. ill. Includes references. (NAL Call No.: DNAL 442.8 C46).

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Gene mapping studies and sequence determination on chloroplast transfer RNAs from various photosynthetic organisms (Maize, kidney beans, Euglena gracilis, cyanophora paradoxa, Algae).
Weil, J.H. ; Mubumbila, M.-Kuntz, M.-Keller, M.-Steinmetz, A. New York, N.Y. : Consultants Bureau. Molecular biology. Nov/Dec 1983 (pub. 1984). Translated from: Molekuliarnaia biologiia. p. 1147-1153. (QH506.A1M62). v. 17 (6,pt.1). p. 937-943. ill. Includes references. (NAL Call No.: QH506.A1M622).

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Gene mapping with recombinant inbreds in maize.
GENTA. Burr, B. ; Burr, F.A.-Thompson, K.H.-Albertson, M.C.-Stuber, C.W. Baltimore, Md. : Genetics Society of America. Genetics. Mar 1988. v. 118 (3). p. 519-526. ill. Includes references. (NAL Call No.: DNAL 442.8 G28).

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Genes affecting the expression of cytochrome c in yeast (Saccharomyces cerevisiae): genetic mapping and genetic interactions.
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Genes coding for small nuclear (Sn) RNAs in Arabidopsis.
ADISB. Vankan, P. ; Egon, D.-Filipowicz, W. Frankfurt am Main, W. Ger. Botanisches Institut, J.W. Goethe-Universitat. Arabidopsis information service. Dec 1987. (25). p. 15-22. Includes references. (NAL Call No.: DNAL QK495.C798A7).

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Genes encoding alpha-amylase inhibitors are located in the short arms of chromosomes 3B, 3D and 6D of wheat (Triticum aestivum L.).
THAGA. Sanchez-Monge, R. ; Barber, D.-Mendez, E.-Garcia-Olmedo, F.-Salcedo, G. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. Apr 1986. v. 72 (1). p. 108-113. ill. Includes references. (NAL Call No.: DNAL 442.8 Z8).

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The genes encoding chloroplast ribosomal proteins S7 and S12 are located in the inverted repeat of Spirodela oligorhiza chloroplast DNA.
CUGEDS. Posno, M. ; Verwej, W.R.-Dekker, I.C.-Waard, P.M. de-Groot, G.S.P. Berlin, W. Ger. : Springer International. Current genetics. 1986. v. 11 (1). p. 25-34. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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Genes involved in the patterns of maize leaf cell division.
Freeling, M. ; Bongard-Pierce, D.K.-Harberd, N.-Lane, B.-Hake, S. Wien : Springer-Verlag, c1988. Temporal and spatial regulation of plant genes / edited by D.P.S. Verma and R.B. Goldberg. Literature review. p. 41-62. ill. Includes references. (NAL Call No.: DNAL QK981.4.T46).

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Genetic analysis of ecological relevant morphological variability in Plantago lanceolata L. 2. Localisation and organisation of quantitative trait loci.
THAGA. Wolff, K. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. 1987. v. 73 (6). p.

903-914. Includes references. (NAL Call No.: DNAL 442.8 Z8).

0109
Genetic analysis of the fungus, Bremia lactucae, using restriction fragment length polymorphisms.
GENTA, Hulbert, S.H. ; Ilott, T.W.~Legg, E.J.~Lincoln, S.E.~Lander, E.S.~Michelmore, R.W. Baltimore, Md. : Genetics Society of America. Genetics. Dec 1988. v. 120 (4). p. 947-958. Includes references. (NAL Call No.: DNAL 442.8 G28).

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Genetic and cytogenetic studies with a male sterile mutant of common wheat (Triticum aestivum) (Varieties, gene mapping).
Kleijer, G. Wageningen : Netherlands Study Circle of Plant Breeding. Euphytica. Mar 1984. v. 33 (1). p. 107-112. ill. Includes references. (NAL Call No.: 450 EU6).

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Genetic characterization of an alpha-specific gene responsible for sexual agglutinability in Saccharomyces cerevisiae: mapping and gene dose effect.
CUGEDS. Suzuki, K. ; Yanagishima, N. Berlin, W. Ger. : Springer International. Current genetics. 1986. v. 10 (5). p. 353-357. ill. Includes references. (NAL Call No.: DNAL QH426.C8).

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Genetic control and mapping of three genetic factors in barley chromosomes 1 and 5.
DKESAS. Netsvetaev, V.P. ; Biyashev, R.M.~Sozinov, A.A. New York, N.Y. : Consultants Bureau. Doklady : biological sciences - Akademiia nauk SSSR. Translated from: Akademiia nauk SSSR, Doklady, v. 284 (3), September 1985, p. 740-745. (511 P444A). Sept/Oct 1985 (pub. 1986). v. 284 (1/6). p. 580-584. Includes references. (NAL Call No.: DNAL 511 P444AEB).

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Genetic control of cold hardiness and vernalization requirement in winter wheat.
CRPSAY. Brule-Babel, A.L. ; Fowler, D.B. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1988. v. 28 (6). p. 879-884. Includes references. (NAL Call No.: DNAL 64.8 C883).
A high level of cold hardiness is essential to ensure consistent overwintering of wheat (Triticum aestivum L.) in the Northern Great Plains region of North America. Consequently, a clear understanding of the genetic control of cold hardiness would facilitate plant breeding efforts directed at cultivar improvement for this area. Although several genetic studies have been conducted, there is not a general consensus on the mode of gene action controlling the expression of cold hardiness in wheat. This study used one spring and four winter cultivars representing a wide range of cold hardiness potential to investigate the mode of inheritance and interaction of cold hardiness, determined in a controlled environment that allowed for maximum expression of cold hardiness potential, and vernalization requirement in wheat. Differences in growth habit between parental cultivars were controlled by the Vrn1 gene. Cold hardiness, estimated as the temperature at which 50% of the plant population was killed (LT50), was controlled by genes with either dominant or additive effects. At least one dominant gene was associated with cold hardiness differences between spring and winter wheat, while genes with mainly additive effects determined differences in cold hardiness among cultivars with the winter growth habit. Broad sense heritability estimates for LT50 in the controlled environment considered ranged from 0 to 88% with most estimates exceeding 50%. In the F2-derived F3 generation, hardy transgressive segregates were most common in crosses between relatively nonhardy cultivars, but no segregates were significantly hardier than the hardiest parental cultivar. Lack of a vernalization requirement did not hinder the development of cold hardiness; however, distribution of F2-derived F3 lines provided evidence of possible genetic linkage or pleiotropism between the gene segregating for growth habit and a gene or genes controlling cold hardiness.

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Genetic linkage analysis (Soybeans, genotypes, phenotypes, chlorophyll, Rhizobium japonicum).
Devine, T.E. ; Breithaupt, B.H. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 131-134. 6 ref. (NAL Call No.: aSB205.S7S6).

0115
Genetic linkage between endosperm storage protein genes on each of the short arms of chromosomes 1A and 1B in wheat (Triticum aestivum).
Payne, P.I. ; Jackson, E.A.~Holt, L.M.~Law, C.N. Berlin, W. Ger. : Springer International. Theoretical and applied genetics. Jan 1984. v. 67 (2/3). p. 235-243. ill. Includes references. (NAL Call No.: 442.8 Z8).

0116
Genetic linkage between glume color and certain gliadin proteins in durum wheat.
CRPSAY. Hare, R.A. ; Du Cros, D.L.~Barnes, W.C. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1986. v. 26 (4). p. 831-833. Includes references. (NAL Call No.: DNAL 64.8 C883).

0117
Genetic linkage in fodder spring barley. Geneticka vazba u krmneho jarniho jecmene.
Rozkosna, A. ; Pesek, J. Praha, Ceskoslovenska akademie zemedelska.

Sbornik UVTIZ - Ustav vedeckotechnickych informaci pro zemedelstvi. Genetika a slechteni. Apr 1981. v. 17 (2). p. 107-115. ill. 16 ref. (NAL Call No.: QH431.A1S25).

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Genetic linkage information.
Devine, T.E. ; O'Neil, J.J. Ames, Iowa : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1986. v. 13. p. 183-185. Includes references. (NAL Call No.: DNAL aSB205.S7S6).

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A genetic linkage map for maize based on RFLPs.
Helentjaris, T. Amsterdam : Elsevier Science Publishers. Trends in genetics. Includes abstract. Aug 1987. v. 3 (8). p. 217-221. Includes references. (NAL Call No.: DNAL QH426.T74).

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Genetic linkage of a leucine aminopeptidase locus with the Kunitz trypsin inhibitor locus in soybeans.
JOHEA. Kiang, Y.T. ; Chiang, Y.C. Washington, D.C. : American Genetic Association. The Journal of heredity. Mar/Apr 1986. v. 77 (2). p. 128-129. Includes 8 references. (NAL Call No.: DNAL 442.8 AM3).

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Genetic linkage of biochemical and morphological traits in soybean.
CRPSAY. Kiang, Y.T. ; Chiang, Y.C. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1985. v. 25 (6). p. 1025-1027. Includes 21 references. (NAL Call No.: DNAL 64.8 C883).

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Genetic linkage relationships in Pyricularia oryzae (Isolated from finger millet, Japan).
Nagakubo, T. ; Taga, M.-Isuda, M.-Ueyama, A. Kyoto : The University. Memoirs - College of Agriculture, Kyoto University. Oct 1983. Oct 1983. (no.122). p. 75-83. ill. Includes references. (NAL Call No.: 107.6 K994).

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Genetic loci of the cellular slime mold Dictyostelium discoideum.
Newell, P.C. Cold Spring Harbor, N.Y. : Cold Spring Harbor Laboratory. Genetic maps. 1984. v. 3. p. 248-252. ill. Includes 42 references. (NAL Call No.: DNAL QH445.2.G4).

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A genetic map of lettuce (Lactuca sativa L.) with restriction fragment length polymorphism, isozyme, disease resistance and morphological markers.
GENTA. Landry, B.S. ; Kesseli, R.V.-Farrara, B.-Michelmore, R.W. Baltimore, Md. : Genetics Society of America. Genetics. June 1987. v. 116 (2). p. 331-337. ill. Includes references. (NAL Call No.: DNAL 442.8 G28).

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Genetic map of Saccharomyces cerevisiae.
Mortimer, R.K. ; Schild, D. Cold Spring Harbor, N.Y. : Cold Spring Harbor Laboratory. Genetic maps. 1984. v. 3. p. 224-233. ill. Includes 151 references. (NAL Call No.: DNAL QH445.2.G4).

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Genetic mapping by conjugation in Streptomyces spp.
Hopwood, D.A. Washington, D.C. : American Society for Microbiology. 1986. Manual of industrial microbiology and biotechnology / editors, Arnold L. Demain and Nadine A. Solomon. p. 191-197. Includes references. (NAL Call No.: DNAL QR53.M27).

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Genetic mapping in Saccharomyces cerevisiae (Yeasts, meiotic, mitotic and fine structure mapping techniques).
Mortimer, R.K. ; Schild, D. Cold Spring Harbor, N.Y. : Cold Spring Harbor Laboratory. 1981. The Molecular biology of the yeast saccharomyces life cycle and inheritance / edited by Jeffrey N. Strathern, Elizabeth W. Jones, James R. Broach. Literature review. p. 11-26. 3 p. ref. (NAL Call No.: QK623.S23M64).

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Genetic mapping of an ancient translocation in the genus Lens.
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Near-isogenic lines (NILs) have been developed in a number of crop species via the backcross breeding method. These NILs possess remnant donor parent (DP) DNA, some of which is present in the chromosomal segment linked to and surrounding the introgressed marker. If this DP-derived DNA contains molecular marker loci (i.e., isozyme variants or restriction fragment length polymorphisms) for which a recurrent parent (RP) and DP possessed allelic contrasts, then DP-derived molecular alleles may still be present in an NIL and could be detected a posteriori by molecular genetic analysis a specific trio sets of RP/NIL/DP lines. Given this proposition, our objective was to provide a theoretical basis for evaluating the results of such analyses. Using equations derived by previous workers, we calculated that about four of 100 randomly chosen DP-derived molecular markers would be expected to be retained in a BC5S1 NIL constructed in a hypothetical species with 20 chromosomes of equivalent 50 centimorgan (cM) genetic map lengths. Of these four markers, two or three would be expected to be located on the introgressed marker chromosome. This suggests that a near-isogenic gene mapping technique would provide a means lot subsetting molecular and introgressed markers into presumptive linkage groups. Such a priori information would make traditional methods of integrating both marker types into a single linkage map a much more efficient undertaking. A combined linkage map would be a valuable resource relative to the goal of eventually cloning some of theconventional markers of scientific interest or economic value.

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Reciprocal exchanges instigated by large heterologies in the b2 gene of Ascobolus are not associated with long adjacent hybrid DNA stretches.
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Use of DNA clones from different species to detect homologous soybean sequences.
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Use of isogenic lines and simultaneous probing to identify DNA markers tightly linked to the Tm-2a gene in tomato.
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The Tm-2a gene of tomato confers resistance to the viral pathogen, tobacco mosaic virus. Like many economically important plant genes, Tm-2a has been characterized phenotypically and by classical linkage analysis, yet nothing is known about its gene product. We report here the

isolation of two DNA clones which are very tightly linked to the Tm-2a gene. These clones were identified by testing 122 genomic clones as hybridization probes against Southern blots consisting of DNA from pairs of nearly isogenic lines with or without the Tm-2a gene. Screening such a large number of clones in a short period of time was facilitated by co-labeling and simultaneous probing of sets of up to 10 random genomic clones. Tightly linked clones were distinguished by the fact that they exhibited one or more restriction fragment length polymorphisms between the nearly isogenic lines. Tight linkage of the clones with Tm-2a was verified in a segregating F2 population. Both mapped to the same locus 0.4 +/- 0.4 centimorgans away from Tm-2a and may provide starting points for a genomic "walk" to this gene. Due to the availability of isogenic lines in many plant species, the strategy outlined in this paper should be widely applicable for selecting DNA clones tightly linked to genes of interest.

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ABCHA6, 130
ADISB, 16, 104, 182, 204, 232, 271, 276, 290
AGRYA, 97
Aguilar, M.D.~Hynes, M.~Muller, P.~Klipp, W.~Priefer, U.~Simon, R.~Weber, G, 4
Al-Qaudhy, W, 38
Alexander, D.C.~Fobes, J.F, 153
Almasan, A, 214
Ambros, P.~Grundler, P.~Varga, F, 16
Amirkhanian, J.D, 191
Ananiev, E.V, 211
Anderson, J.B.~Horgen, P.A, 261
Anderson, L.K, 253
Anderson, N.G, 292
Anderson, N.L.~Hofmann, J.P, 292
APMBA, 44, 152, 304
Appels, R, 202, 228
Apuya, N.R, 300
Arain, C.R, 155
Arndt, K.T, 224
Arst, H.N. Jr, 183
Asins, M.J, 73
Awuma, K, 3
Aymeric, J.L, 190
Azevedo, J.L, 28
Bang, A.G.~Thompson, W.F, 364
Baran, G.~wessler, S.R, 306
Barber, D.~Mendez, E.~Garcia-Olmedo, F.~Salcedo, G, 105
Barker, R.F.~Courtice, G.R.M.~Willey, D.L.~Dyer, T.A.~Gray, J.C, 27
Barker, R.F.~Latchford, J.W.~Rossen, L.~Johnston, A.W.B, 9
Bass, H.W.~Hughes, D.W, 301
Bassett, M.J, 3
Bassuner, R.~Hai, N.V.~Czihal, A.~Baumlein, H.~Wobus, U, 327
Beckmann, J.S, 52, 244, 299, 302, 303
Beckmann, Jacques S, 305
Beikhiri, A, 54
Bellemare, G.~Lee, R.W.~Lemieux, C, 175
Bellemare, G.~Lemieux, C, 259
Belyasova, N.A.~Fomichev, Yu.K, 57
Benenfeld, B.J.~Robertson, H.D, 349
BEOBA, 160, 161
Bermingham-McDonogh, O, 63
Bernatzky, R.~Lapitan, N.L.~Prince, J.P, 60
Berry-Lowe, S.~Shirley, B.W.~Meagher, R.B, 348
Beversdorf, W.D.~Buzzell, R.I, 14
BICHA, 237
BIGEBA, 84, 156
Bingham, S.E, 98
Biyashev, R.M.~Sozinov, A.A, 112
Blake, T.K.~Smith, S.E, 23
Blyden, E.R.~Eccles, C.J.~Dunn, P.P.J.~Hird, S.M.~Hoglund, A.S.~Kaethner, T.M.~Smith, A.G.~Willey, D.L.~Dyer, T.A, 33
BMSTA, 28
Bode, R.~Birnbaum, D, 258
Bohme, H, 216
Bonanomi, S.~Soave, C.~DiFonzo, N.~Salamini, F, 195
Bonas, U.~Saedler, H, 344
Bonga, J.M, 269
Bongard-Pierce, D.K.~Harberd, N.~Lane, B.~Hake, S, 107
Bonierbale, M.W, 307
Bordonne, R, 89
Borkhardt, B, 208, 209
Borthakur, D, 9
Bottomley, W.~Whitfeld, P.R, 247
Bowman, J.L.~DeJohn, A.W.~Lander, E.S.~Meyerowitz, E.M, 298
BPPFA, 20, 88, 211, 326, 327, 329
Branch, A.D, 349
BRCPA, 144
Breithaupt, B.H, 114
Breunig, K.D.~Bonnert, H.J, 268
Briggs, S.P, 222
Brown, A.E, 264
Brown, J.W.S.~Schmitz, L.M.~Schwall, M.~Dietrich, G.~Feix, G, 198
Brown, T.A.~Thim, P.~Olson, L.W, 208
Brule-Babel, A.L, 113
Bruns, T.D, 207
Bryant, D.A, 66, 250
Bryant, D.A.~Porter, R.D, 218
Bulat, S.A, 360
Bunce, N.A.C, 80
Burkard, G.~CBESB, 278
Burr, B, 102
Burr, B.~GENGD, 12
Burr, F.A.~Burr, B, 333
Burr, F.A.~Thompson, K.H.~Albertson, M.C.~Stuber, C.W, 102
Calie, P.J, 58
Canadav, J.~Crouse, E.J.~Gloeckler, R.~Gordon, K.~Guillemaut, P.~Keith, G.~Kuntz, M.~Mubumbila, M.~Osoric, M.L, 278
Carbonell, E.A, 73
Carlson, M, 45
Carlson, W.R, 17
Casey, R, 326
Castle, A.J, 304
Celenza, J.L.~MCEBD4, 45
Chaboute, M.E.~Philipps, G.~Gigot, C, 148
Chaleff, R.S, 94
Chang, C, 298
Chang, C.~DeJohn, A.W.~Bowman, J.L, 271
Chaubet, N, 148
Chen, K, 171
Chepurnaya, O.V, 133
Chetrit, P, 254
Chiang, Y.C, 120, 121
Chisholm, D.A, 242
Choumane, W, 325
CHRDAU, 72, 100, 345
Clark-Walker, G.D, 13
Cleary, W, 345
CNJGA8, 277
Coddington, A.~Goffeau, A, 233
Coe, E.H. Jr, 176
Cohen-Bazire, G, 86
Coleman, J.R, 219
Connu, A, 143
Cote, J.C.~Wu, R, 328
Court, C.B.~Ronson, C.W, 262
Cowan, J.W, 191
Cowen, N.M, 357
Craig, E.A, 320
Crossland, L.D.~Lukens, J.H.~Muskavitch, K.M.~Russell, D.R.~Shen, J.Y.~Znu, Y.S.~Bogorad, L, 251
Crouse, E.J.~Mubumbila, M.~Burkard, G.~Weil, J.H, 342
Croy, R.R.D, 88
CRPSAY, 14, 38, 113, 116, 121, 171, 203, 221, 229, 297, 336
CUGEDS, 10, 13, 18, 30, 42, 47, 51, 59, 68, 87, 89, 90, 91, 106, 111, 131, 132, 134, 139, 145, 157, 184, 185, 187, 207, 208, 209, 233, 236, 246, 258, 259, 261, 263, 268, 274, 275, 295, 315, 317, 319, 340, 347, 350, 364
Cusick, J.E, 178
Czarnecka, E, 81
Czarnecka, E.~Gurley, W.B.~Nagao, R.T, 8
Dang, L.H, 257
Daniel, J, 42

David, C. 335
Dawson, W.D. 267
De Lorimier, R.~Guglielmi, G.~Stirewalt, V.L.~Cantrell, A.~Stevens, S.E. Jr. 66
De Zoeten, G.A.~Hanneman, R.E. Jr. 65
Dean, C. 318
DeBonte, L.R.~Wilson, K.G.~Matthews, B.F. 67
Delcasso, D.~Delseny, M. 206
Delbes, A. 92
Devine, T.E. 114, 118, 316
Devine, T.E.~JOHEA 7
DGNTDw 148, 283, 328
Dhamija, S.S. 347
Dick, M.W. 54
Dietrich, M.A. 265
Dingermann, T. 158
Dirheimer, G.~Martin, R.P. 89
DKBSAS 113
Domoney, C.~Ellis, N.~Turner, S. 326
Dormann-Przybyl, D. 288
Doussinault, G.~Mena, M.~Lopez-Brana, I.~Garcia-Olmedo, F. 92
Doyle, J.J. 361, 367
Du Cros, D.L.~Barnes, W.C. 116
Dubbs, J.M. 250
Dubois, E. 366
Dunn, P.P.J.~Eccles, C.J.~Hird, S.M.~Hoglund, A.S.~Last, D.I.~Newman, E.J.~Willey, D.L. 22
Dunne, P.W. 210
Dunsmuir, P.~Bedbrook, J. 318
Dutchik, J.E.~Graham, M.Y.~Brodeur, G.M.~Helms, C.~Frank, M.~MacCollin, M.~Scheinman, R.~Frank, T. 282
Ecker, D.J.~Butt, T.~Gorman, J.A.~Crooke, S.T. 362
Egon, D.~Filipowicz, W. 104
Edwards, M.D. 220
Edwards, M.D.~Wendel, J.F. 221
Efremov, E.D. 141
EJBCAI 26, 158, 238
Elgersma, A.~Hannart, C.J.~Loenen-Martinet, E.P. van 232
Ellis, T.H.N. 345
Ellstrand, N.C. 159
Eng, C.~Stevens, D.M. 145
Esser, K. 91
Estepan, R.~Wickner, R.B. 83
EUPHA 299
Evans, I.M.~Yarwood, J.N.~Harris, N.~Gatehouse, J.A.~Shirsat, A.H.~Kang, A.~Ellis, J.R.~Thompson, A.~Boulter, D. 88
Evola, S.V. 333
Evola, S.V.~Burr, F.A.~Beckmann, J.S. 12
EXMYD 351
Falconet, D. 235
Fanourakis, N.E. 6
Fauron, C.M.R.~Hodge, T.P.~Pring, D.R.~Stern, D.B. 321
Ferl, R.J. 5
Figdore, S.S. 15
Fluhr, R.~Chua, N.H. 353
Fluri, R.~Schweingruber, M.E. 347
FMLED7 217
Folkeson, D. 354
Forde, B.G.~Kreis, M.~Shewry, P.R. 80
Fowler, D.B. 113
Fox, T.D. 215
Franche, C. 86
Frazier, B.L.~Keim, P.~Roth, E.J.~Lark, K.G. 300
FRCRAX 142
Fredrick, L. 164
Freeling, M. 107
Frommer, W.B. 82
Fujmura, T. 83
Fukuzawa, H.~Kohchi, T.~Sano, T.~Sano, S.~Shirai, H.~Umesono, K.~Shiki, Y.~Takeuchi, M.~Chang, Z. 324
Galau, G.A. 301
Galili, G. 29
Ganal, M. 56
Gannon, G.C.~Galun, E.~Kenschaft, L.~Weissbach, A. 40
Garber, E.D. 145
Gardner, R.C. 246
Gatehouse, J.A.~Boulter, D. 162
Gauthier, A. 194
Gavrils, L. 226
GEAGA 195
Gedminene, G.K.~Markyavichyus, A.I.~Naktinis, V.I.~Yanulaitis, A.A. 49
Geever, R.F. 284
GENDE3 149, 334, 365
GENRAB 147, 196
GENTA 46, 55, 76, 102, 109, 124, 150, 154, 169, 189, 214, 220, 285, 307, 309, 356, 359
Gepts, P. 279
Gherardi, M.~Terzaghi, B.~Kahn, D.~David, M.~Domergue, O.~Terzaghi, E.~Garnerone, A.M.~Boistard, P.~Batut, J. 280
Gill, B.S. 39
Gill, B.S.~Kam-Morgan, L.N.W.~Corpuz, L.M.~Chandra, G.R. 193
Golden, S.S. 227
Golubovskaya, I.N. 199
Gope, M.L.~Sadhu, K.~Gopinathan, K.P. 170
Gorman, M.B. 174
Gounaris, I. 295
Govindaraju, D.R.~Dancik, B.P. 32
Gralla, E.B.~Valentine, J.S. 63
Grandbastien, M.A. 348
Gray, J.C. 22, 33
Griffin, J.D. 186
Grivell, L.A. 296
Groose, R.~Shoemaker, R.C. 355
Gross, C.H. 90
Gross, T. 275
Grossman A.R. 253
Guilfoyle, T.J. 146, 265
Guiseppi, A.~Pascal, M.C.~Chippaux, M. 190
Gunge, N. 173
Gurley, W.B.~Nagao, R.T.~Czarnecka, E.~Mansfield, M.A. 223
Gurley, W.B.~Nagao, R.T.~Mosquera, L.A.~Key, J.L. 81
Gustafsson, P. 330
Hageman, J.~Cremers, F.~Keegstra, K.~Bauerle, C.~Smeekens, S. 235
Hah, Y.C.~Hong, S.W. 245
Hahlbrock, K.~Somssich, I.E. 71
Hain, R. 341
Hallick, R.B. 98
Hamza, H.~Haedens, V.~Rossignol, J.L. 285
Hanhart, C.J. 182
Hanhart, C.J.~Martinet, E.P. van Loenenen-Veen, J.H. van der. 204
Hare, R.A. 116
Harper, J.F. 249
Harpster, M.H. 289
Hart, G.E. 19
Hasegawa, Y.~Kitamura, K.~Shimoda, C.~Fukui, Y.~Yamamoto, M. 197
Haselkorn, R. 216, 227
Hastings, H. 195
Hatchett, J.H.~Raupp, W.J. 39
Hayashi, J. 160
Hayashi, J.~Moriya, I.~Takahashi, R. 161

Hedges, B.R.~Palmer, R.G. 1
Heinhorst, S. 40
Heizmann, P. 325
Helentjaris, T. 11, 62, 119, 154, 358
Helentjaris, T.~Slocum, M.~Ruggero, B.~Schaefer, A. 297
Herbon, L.A. 350
HEREA. 354
Herman, R.E. 44
Herrero, A. 136
Herrmann, A. 346
Herrmann, R.G. 187
Herrmann, R.G.~Peleg, N.~Lavi, S.~Frankel, R.~Beckman, J.S. 260
Hildebrand, M. 69
Hilger, F.~CUGED. 129
Hintz, W.A.~Monan, M.~Robison, M.~Anderson, J.B.~Horgen, P.A. 149
Hintz, W.E.A. 261
Hird, S.M. 27
Hirth, K.P.~Romans, P.~Noegel, A.~Firtel, R.A.~Williams, K.L. 359
HJHSA. 164
Ho, T.H.D.~Harlan, J.R. 283
Hodge, T.P.~Fauron, C.M.R.~Flavell, R.B. 270
Hoeben, P. 13
Holsington, D.A.~Neuffer, M.G. 176
Holschuh, K. 247
Holt, L.M.~Payne, P.I. 147
Honeycutt, R.J. 1
Hopwood, D.A. 126
Horgen, P.A.~Anderson, J.E. 304
Hosaka, K. 65
Hosler, J.P.~Gillnam, N.W.~Boynton, J.E. 21
Huang, P.L. 71
Hudson, K.R. 246
Hudspeth, M.E.S.~Moore, G.P.~Grossman, L.I. 10
Hughes, K.W. 58
Huguet, T. 280
Hulbert, S.H. 109
Hull, R. 291
Hunsperger, J.P.~Chereskin, B.M.~Messing, J. 189
Huynh, A.D. 157
IKZAA. 231
Illott, T.W.~Legg, E.J.~Lincoln, S.E.~Lander, E.S.~Michelmore, R.W. 109
Ishino-Arao, Y.~Shirai, T.~Maeda, N.~Shinoda, S. 132
Jackson, E.A. 147
Jackson, E.A.~Holt, L.M.~Law, C.N. 115
Jacobs, M. 331
Jansen, R.K. 30, 31
JBCHA3. 136
Jeong, H.H.~HNCKA. 245
JGMIAN. 54
JMOBAK. 313, 324, 338
JOBAAY. 241
JOBSD. 170
JOHEA. 6, 39, 120, 159, 186, 191
Johnson, K.~Gerhold, H.D. 84
Johnson, S.S. 334
JOSHB. 3
Jupe, E.R.~Walbot, V. 309
Jurgenson, J.E.~Ramage, R.T.~Bourque, D.P. 69
Kaldma, Ya.A.~SOGEE. 133
Kang, Y.W. 234
Kao, T.H.~Wu, R. 312
Karns, J.S.~Kearney, P.C.~Nelson, J.O.~McDaniel, C.S.~Wild, J.R. 152
Kassir, Y. 47
Kato, A.~Tanifuji, S. 75
Kawamoto, S. 130
Kawata, E.E.~Larkins, B.A. 29
Keen, C.L. 168
Keim, P. 61, 355
Kempers-Veenstra, A.E. 68
Kennard, W.C.~Song, K.M.~Slocum, M.K.~Osborn, T.C. 15
Kerber, E.R. 336
Kessell, R.V.~Farrara, B.~Michelmore, R.W. 124
Key, J.L. 8, 223
Khan, M.I. 362
Kiang, Y.T. 120, 121, 203
Kiang, Y.T.~Gorman, M.B. 316
Kinoshita, T. 96
Kishida, M. 131
Kita, F. 231
Klassen, G.R. 351
Kleijer, G. 110
Klein, H.L.~MCEBD4. 140
Klein, R.D. 51
Kleinhofs, A.~Kudrna, D.A.~Warner, R.L.~Blake, T.K. 135
Knorr, D.A. 267
Ko, K. 363
Koebner, R.M.D. 365
Koller, T.~Thoma, F. 338
Konig, S. 20
Konishi, T. 161
Konishi, T.~Moriya, I.~Takanashi, R. 160
Koornneef, M. 182, 204, 232, 276
Kotylak, Z. 137
Kramer, J.~Kosic-Smithers, J. 320
Kuhlemeier, C. 353
Kumar, H.D. 144
Kuntz, M. 342
Kunze, G. 258
Kupiec, M.~Shalom, A.~Simchen, G. 47
Kurischko, C. 319
Lacha, J.K. 144
Lander, E.S.~Hewitt, J.D.~Peterson, S.~Lincoln, S.E.~Tanksley, S.D. 293
Landry, B.S. 124, 205
Langin, T. 285
Lau, G.T.~Walbot, V. 243
Law, C.N.~Hollins, T.W.~Koebner, R.M.D.~Giura, A. 188
Lawrence, G.J. 202
Leblon, G.~Zickler, D. 157
Lebowitz, R.J. 339
Leong, F.T. 142
Lee, D. 308
Lee, D.J. 23
Lee, J.M. 159
Levi, A. 18
Lidholm, J. 34
Liebman, S.W. 286
Lin, L.S. 283
Loaiza-Figueroa, F. 95
Loiseaux-de Goer, S. 263
London, UK. 183
Lonsdale, D.M. 270, 321
Lund, P.M. 197
Ma, C. 256
Madura, K. 241
Maekawa, M. 231
Mages, W. 248, 249
Maggini, F. 310, 311
Mahmoud, S.H. 162
Maier, J.G. 198
Maine, G.T.~Elble, R.~Christ, C.~Tye, B.K. 313
Markmann-Mulisch, U. 238
Markowicz, Y.~Dalmon, J.~Audren, H. 263
Marrs, B.L. 252
Marx, G.A. 272
Mathieu, C. 255
Mathieu, C.~Muller, J.P.~Vedel, F. 254
Matsui, M. 290
McCarty, D.R. 50

McClure, B.A. 146
McIntosh, R.A. 97, 178
McKay, L.L. 44
McKenzie, R. 315
McNabb, S.A. 351
Meizer, J.M. 135
Mendelovitz, S.~Coher, G.~Aharonowitz, Y.~Roy, K.L. 168
Messenguy, F. 366
Metzenber, R.L. 151
Meyer, R.J. 149
Meyerowitz, E.M. 271
MGGEAE. 2, 9, 34, 48, 56, 58, 71, 75, 82, 168, 183, 190, 194, 197, 198, 210, 216, 225, 234, 240, 248, 249, 289, 301, 306, 312, 322, 337, 344, 346, 353, 366
Michalowski, C. 268
Michalowski, C.B.~Bonnert, H.J.~Price, C.A. 295
Michelmore, R.W. 205
Minaescu, G. 226
Miller, D.L. 234
Miller, T.E.~Snape, J.W.~Law, C.N. 365
Mink, M. 156
Mishra, N.C. 214
Misiewicz, M.H.~AMPOA. 137
MOLBBU. 166
Moon, E. 312
Morishima, H. 77
Morota, H. 163
Morris, R.~Mumm, R.F.~Hanna, M.A. 38
Mortimer, R.K. 125, 127
Mubumbila, M. 53
Mubumbila, M.~Kuntz, M.~Keller, M.~Steinmetz, A. 101
Muenlbauer, G.J. 229
Mulbry, W.W. 152
Muller, P.P. 215
Mulligan, R.M. 243
Murayama, T.~Case, M.E.~Giles, N.H. 284
Murfet, I.C. 273
Murphy, R.C. 218
Musters, W.~Dekker, A.F.~Klootwijk, J.~Planta, R.J. 68
Mutnukrishnan, S. 193
Nagakubo, T. 122
NASSD. 53, 223
NATUAS. 293
Nenke, K.~Marschalek, R. 158
Ness, P.J. 328
Netsvetaev, V.P. 112
Nevzglyadova, O.V. 166
Newell, P.C. 123
Newman, M.A.~Davies, D.R. 72
Newton, K.J.~Maloney, A.~Masters, B.S.~McCarty, D.~Fejes, E.~Hauswirth, W.W. 192
Niebling, C.R. 84
Nienhuis, J. 297
Nischt, R.~Gatermann, K.~Swida, U.~Kaufer, N.F. 275
Nomura, N.~Ishizaki, R. 290
Nordheim, E.V. 85
Nugent, J.M.~Herbon, L.A. 352
Nuss, D.L. 323
O'Malley, D.M.~Gurries, R.P. 85
O'Neil, J.J. 118
Oakley, B.R. 210
Ogrydziak, D.M. 74
Ohyama, K. 324
Okada, H. 26
Okagaki, R.J. 55
Okuno, K.~Satoh, H.~Omura, T. 37
Olmedilla, A. 206
Olson, L.W. 209
Olson, M.V. 282
Ono, B. 132
Ooms, G. 322
Orbach, M.J.~Legerton, T.L.~Yanofsky, C. 64
Osborn, T.C. 153
Osborn, T.C.~Williams, P.H. 24, 25
Osorio, B.~Thompson, W.F. 87
OSPBED. 303
Owttrim, G.W. 219
Palmer, J.D. 30, 31, 59, 87, 350, 352
Palmer, J.D.~Howe, G.T.~Doerksen, A.H. 35
Palmer, J.D.~Shumard, D.S.~Grossman, L.I.~Hedspeth, M.E.S. 207
Palmer, R.G. 186
Palmer, R.G.~Buzzel, R.I. 7
Paluh, J.L. 64
Palys, J.~Alpert, K.~Lassner, M. 2
Papciak, S.M. 139
Passmore, S. 313
Paterson, A.H. 293
Paul, A.M.~Ashraf, M.~Bollinger, S. 5
Payne, P.I. 115
PCRPD8. 335
Pearson, N.J. 139
Pedersen, M.B. 93
Pesek, J. 117
Peterson, P.A. 343
Peters, T.D. 140
Petit, A.~Tempe, J. 335
Picologlou, S. 286
Pizzagalli, A. 79
Pizzirani-Kleiner, A.A. 28
PJBDB6. 155
PLABED. 188
Plaisted, R.L.~Tanksley, S.D. 307
PLPHA. 29, 67
PLSCE4. 41, 239
PLSMD. 69, 362
PNASA. 31, 35, 50, 60, 63, 64, 79, 81, 95, 151, 165, 213, 243, 267, 281, 282, 284, 287, 298, 320, 349, 352
Polans, N.O. 165
Posno, M. 106, 184, 185
Potapova, T.A.~Potapov, V.A.~Salina, E.A.~Shumnyi, V.K. 332
Prakash, S. 241
Prevot, M.~Mortimer, R. 129
Pring, D.R. 257
Prokulevich, V.A. 57
PROTAS. 310, 311
PTSLAF. 206
Puhler, A. 4
Rafalski, A.~Soll, D. 239
Ranum, L.P.W.~Lefebvre, P.A. 90
Reddy, K.J. 43
Reith, M.~Erickson, L.R.~Williams, J.P.~Straus, N.A. 201
Rennie, B.D. 14
Reynolds, P. 281
Rick, C.M. 177
Ridley, B.L.~Sink, K.C. 18
Rines, H.W. 334
Robbins, L.G.~Kennedy, A.~Magee, P.T. 150
Roberts, L.L.~Palmer, J.D.~Thompson, W.F. 340
Rockmill, B. 287
Rodermel, S.R. 251
Rodland, K.D.~Cutler, J.E.~Rachlin, E.M.~McCloskey, J.A. 78
Roeder, G.S. 287
Roof, L.L. 51
Rothstein, R.J. 103
Rozkosna, A. 117
Ruddle, F.H. 230
Russel, P.J. 78
Ryzik, M.V.~Sonina, N.V.~Golovkin, M.V.~Shipkova, N.I. 211

Sadhu, C. 170
Saedler, H. 266
Salbaum, J.M.~Harper, J.F.~Schmit, R. 248
Salts, Y. 260
Sanchez-Monge, R. 105
Sasnauskas, K.V. 49
Sato, Y.I. 77
Schatz, P.J. 169
Schild, D. 125, 127
Schmidt, R.J. 21
Schuchert, P.~Kilbey, B. 315
Schulz, W.~Hahlbrock, K. 346
Schweizer, D. 16
SCIEA 224, 227
Scoles, G.~Chapman, C.G.D. 228
Scott, D.B. 262
Seraphin, B. 274
Sevignac, M.~Quetier, F. 236
Shaw, J.R.~Hannan, L.C. 50
Shen, D.L. 100
Shepherd, K.W. 179, 180, 196
Sherman, F. 103
Shewry, P.R. 200, 329
Shimoda, C. 131
Shinozaki, K.~Zaita, N.~Kusuda, M.~Kumano, M. 41
Shoemaker, R.C. 61
Sicard, A.M.~Sinskey, A.J. 240
Simchen, G. 42
Simon, M.~Faye, G. 274
Simon, P.W. 6
Simpson, P.R. 72
Singh, N.K. 179, 180, 196
Singh, R.K. 217
Sinkar, V.P. 212
Sitpon, P. 330
Sitch, L.A. 167
Slocum, M.~Wright, S.~Schaefer, A.~Nienhuis, J. 62
Slocum, M.K. 358
Smith, L.M. 150
Smith, M.A. 256
Snape, J.W. 70
Snape, J.W.~Firman, S.J. 167
Snustad, D.P. 189
SOGEBZ 49, 141, 199
Soller, M. 52, 299, 302, 303
Soller, M.~Beckmann, J.S. 339
Soller, Morris~Burr, Benjamin, 305
Solomon, F.~Botstein, D. 169
Sommer, H. 344
Song, K.M. 24, 25
Specht, J.E.~Thomas-Compton, M.A.~Staswick, P.E.~Bernard, R.L. 229
Speeckaert, F. 331
Spell, M.L. 306
Springer, B.~Schurmann, J.~Bellmann, R. 225
Srinivasa, B.R. 237
SSTCB 80
Stam, P. 276
Starlinger, P. 82
Staub, J.E. 164
Stein, D.B. 59
Stern, D.B. 364
Stevenes, J.N.~Selker, E.U.~Morzycka-Wroblewska, E. 151
Stevens, S.E. Jr.~Bryant, D.A. 217
Stiekema, W.J.~Tobin, E.M. 314
Strauss, S.H. 35
Strittmatter, G.~Kossel, H. 288
Stuber, C.W. 221
Stuber, C.W.~Wendel, J.F. 220
Stummann, B.M.~Bookjans, G.~Henningsen, K.W.~Weil, J.H.~Crouse, E.J. 53
Styles, C.~Fink, G.R. 224
Subik, J. 134
Subramanian, A.R. 237, 238
Sugiura, M. 41
Sugiyama, T. 239
Suzuki, K. 111
Szmidt, A.E.~Hallgren, J.E.~Gustafsson, P. 34
Tadmor, Y. 128
Taga, M.~Tsuda, M.~Ueyama, A. 122
Taguchi, A.K.W. 46
Taira, T. 75
Tanaka, H. 48
Tanksley, S.D. 60, 95, 99, 337
Tartaglia, J. 323
Tatham, A.S.~Field, J.M.~Forde, B.G.~Clark, J.~Gallois, P.~Marris, C.~Halford, N.~Forde, J.~Kreis, M. 329
Taylor, N.L. 171
THAGA. 15, 23, 24, 25, 36, 37, 40, 52, 62, 65, 70, 73, 77, 92, 105, 108, 128, 135, 153, 163, 167, 179, 180, 201, 202, 260, 300, 308, 325, 331, 333, 339, 341, 357, 367
Thomzik, J.E. 341
Toh-e, A. 138
Tokuyama, S.~Aoyama, K.~Yashima, S.~Eguchi, Y. 130
Tolstorukov, I.I. 141
Torenvliet, D.J.~Lustig, H.~Noort, M. van~Groot, G.S.P. 185
Torres, R.~Hemleben, V. 56
Tostain, S. 277
Townsend, J.A.~Jones, J.D.G.~Bedbrook, J.~Dunsmuir, P. 289
Truelove, B.~Highfill, C.T.~Smith, S.G. 264
Tsuboi, M. 48
Tsuchiya, T. 181
Tucci, G.F. 310
Tucci, G.F.~Gelati, M.T. 311
Tudzynski, P. 91
Turano, F.J. 67
Turmel, M. 175, 259
Turmel, M.~Lemieux, C. 194
Turner, L.~Davies, D.R.~Ellis, T.H.N. 308
Twell, D. 322
Tyagi, A.K. 187
Uchimiya, H. 163
Ueda, M.~Sugawa, T.~Atomi, H.~Mozaffar, S.~Hishida, T.~Teranishi, Y.~Okazaki, K.~Takechi, T.~Kamiryo, T. 26
Ulaszewski, S. 233
Ulaszewski, S.~Goffeau, A. 134
Valsasnini, P.~Plevani, P.~Lucchini, G. 79
Vankan, P. 104
Vann, C.~Sherman, L. 43
Varagona, M.J. 213
Vedel, F.~CUGED 255
Vershinin, A.V.~DKBSA. 332
Verweij, W.R.~Dekker, I.C.~waard, P.M. de~Groot, G.S.P. 106
Vliet, A. van~Groot, G.S.P. 184
Vodkin, L.O. 172
Von Adenkas, P.~James, D. 269
Wagenvoort, M. 36
Wagner, D.B. 32
Walbot, V. 192
Walton, M. 11
Wang, Z.F.~Wu, M. 100
Weber, C. 10
Weber, D.~Wright, S. 154
Weber, S.~Prakash, L. 281
Weeden, N.F.~Thompson, W.F. 165
WEESA6. 264
Weil, J.H. 101
Weisbeek, P. 235
Welker, D.L. 76, 359

Werr, W. 225
Weschke, W. 327
Wessler, S.R. 55, 213
White, F.F. 212
Widstrom, N.W. 294
Wienand, U. 266
Williams, J.G.K. 242
Wimpee, C.F. 314
Wiseman, B.R.-McMillan, W.W. 294
Wolfe, K.H. 317
Wolff, K. 108
Wolk, C.P. 136
Woodbury, N.W. 340
Worland, A.J. 188
Wu, N.H. 328
Xiao, W. 201
Yanagishima, N. 111
Yano, M. 37
YAXAA. 172
Yeh, P. 240
Yoder, J.I. 2
Young, E.T. 46
Young, N.D. 356
Youvan, D.C. 252
Zakharov, I.A.-Stepanova, V.P.-Yarovoi, B.F. 360
Zamir, D. 337
Zamir, D.-Ganal, M.w.-Tanksley, S.D. 356
Zamir, D.-Ladizinsky, G. 128
Zimmer, E.A. 309

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